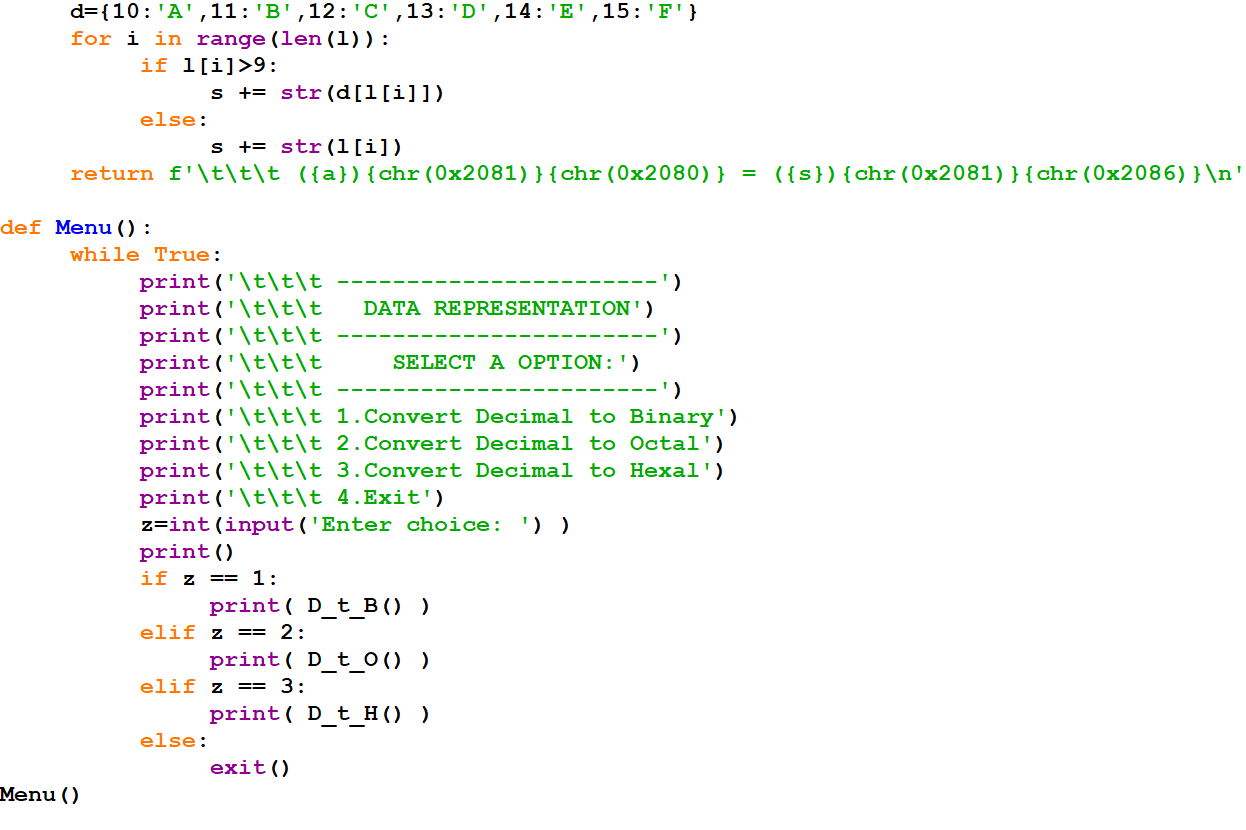
1. NUMBER SYSTEM

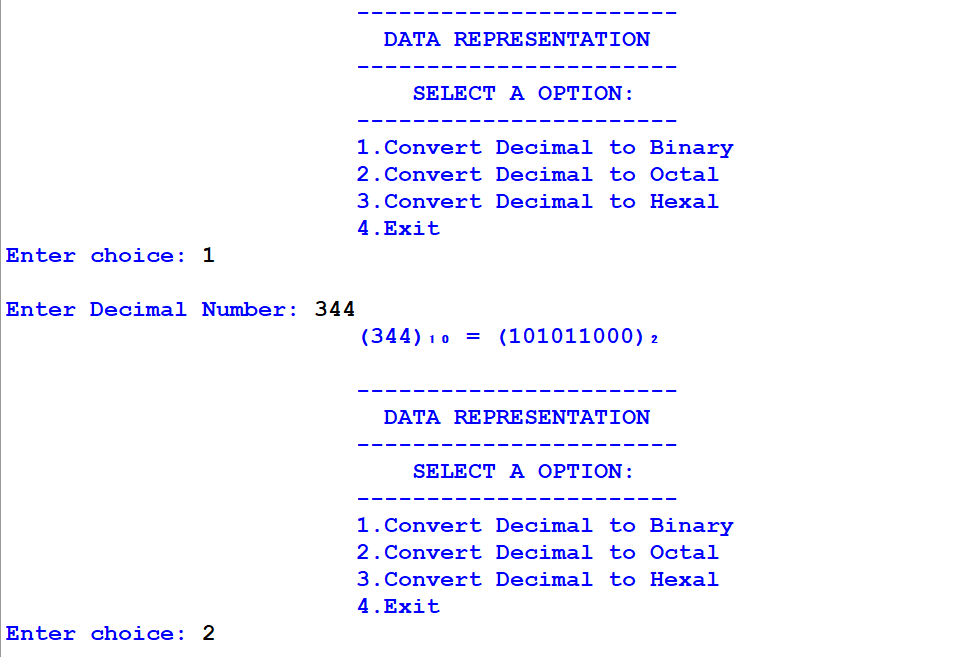
**Q.) Create a menu driven program to convert a decimal number to it’s binary, octal, and hexagonal equivalents.**

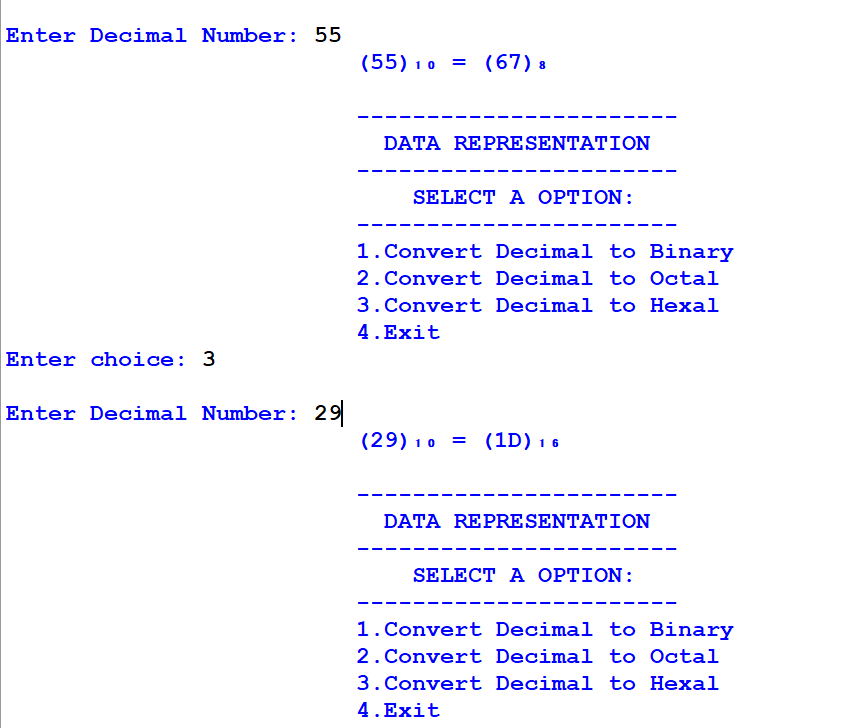
**INPUT**





**OUTPUT**



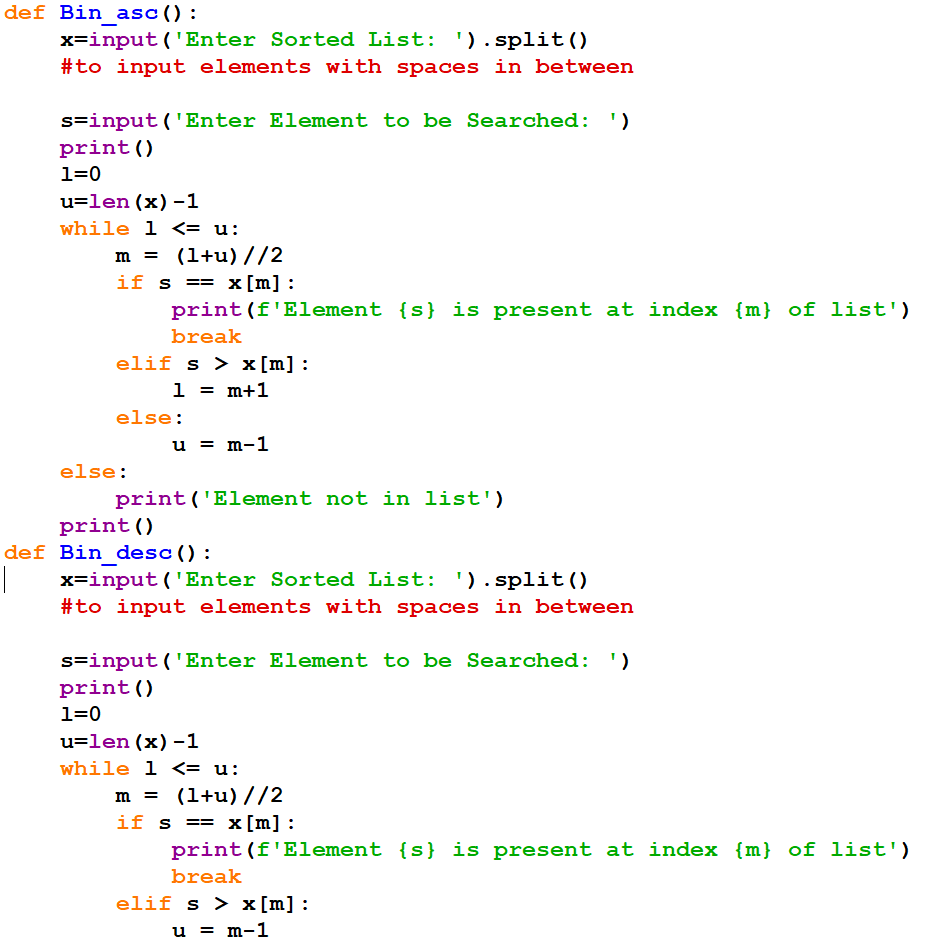


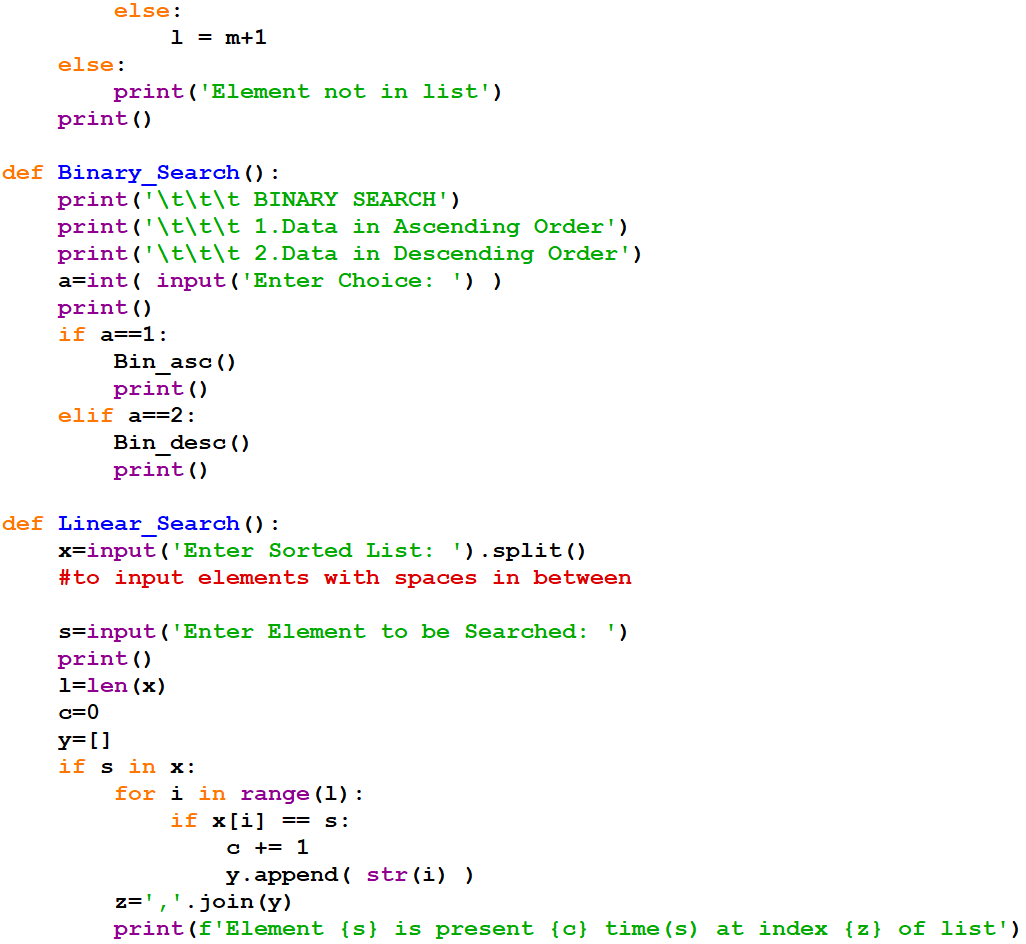


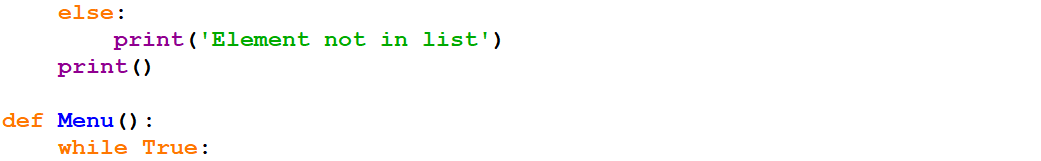
2. SEARCHING

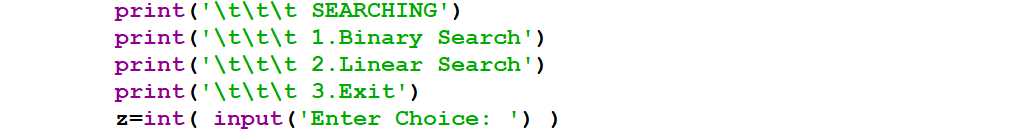
**Q.) Create a menu driven program to search an element in a sorted list.**

**INPUT**



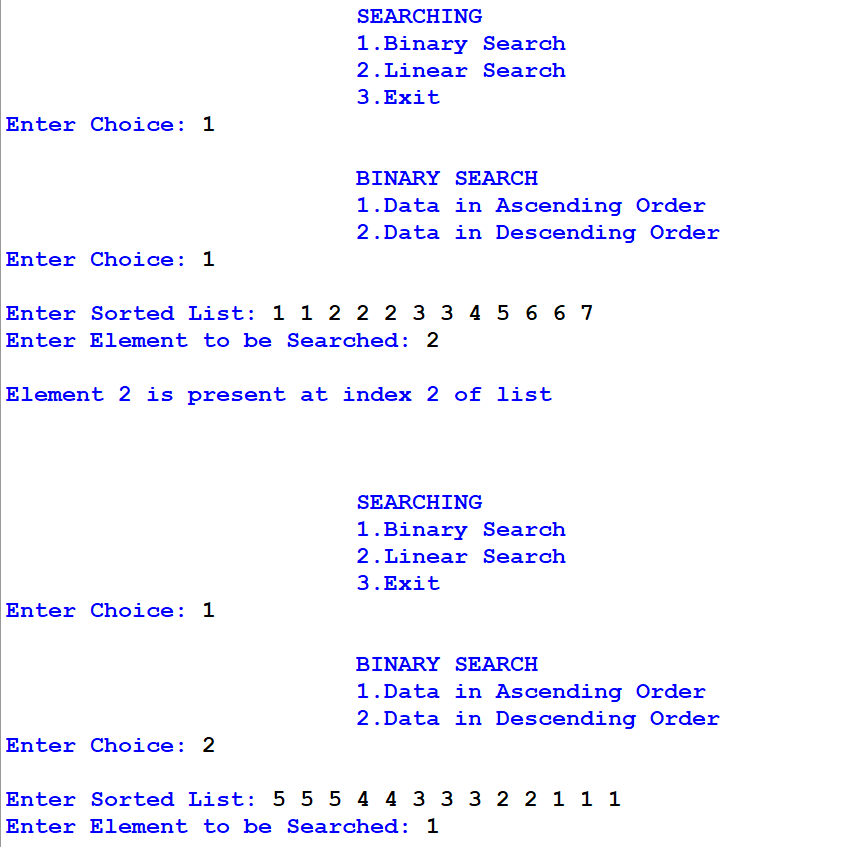


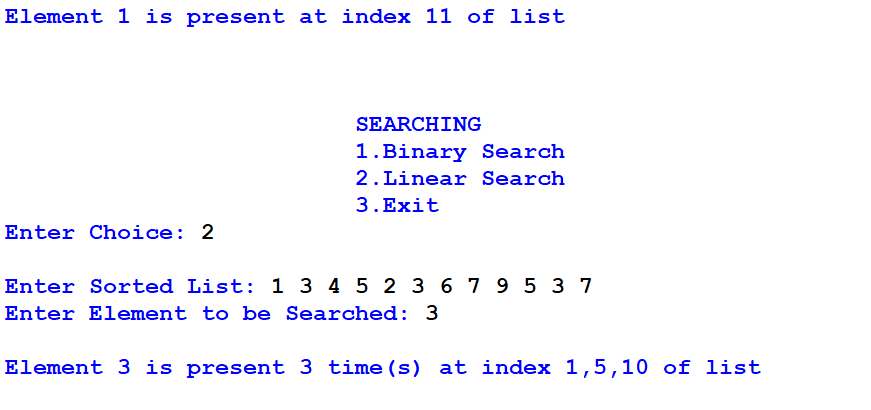
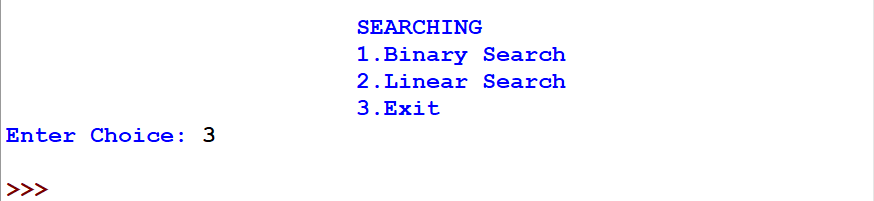






**OUTPUT**

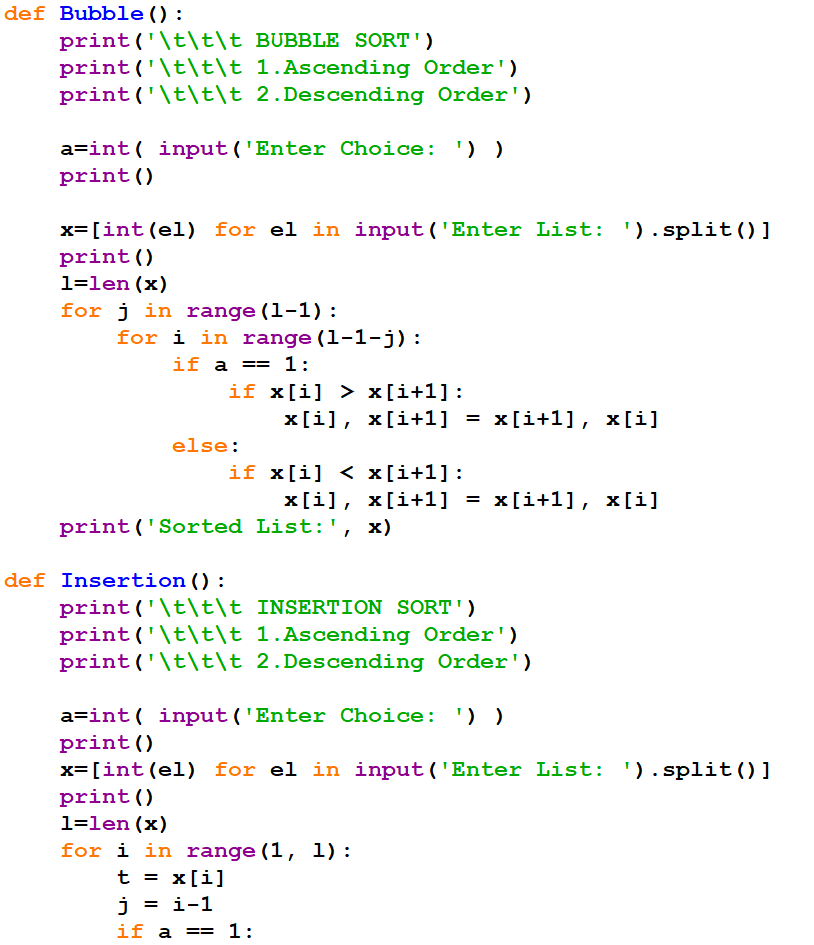


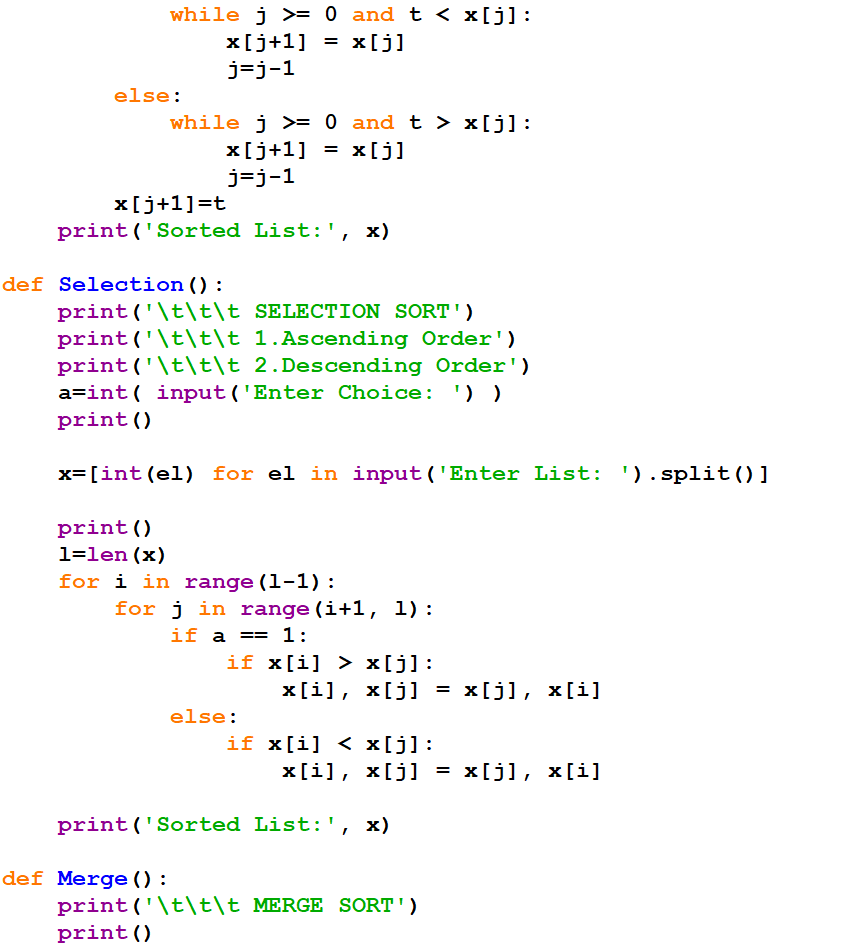
 

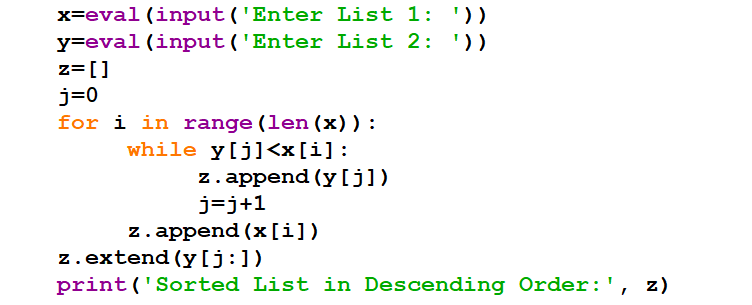
3. SORTING

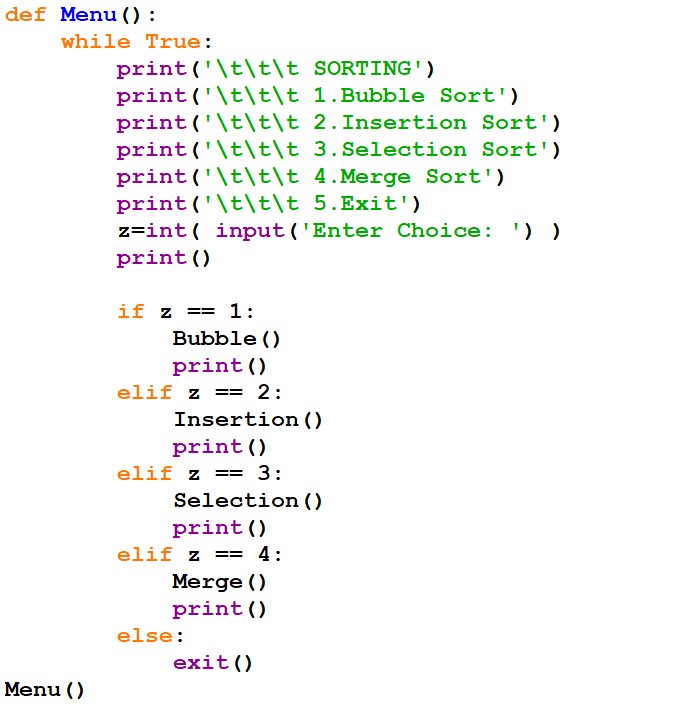
**Q.) Create a menu driven program to sort the elements of a given list using different algorithms.**

**INPUT**

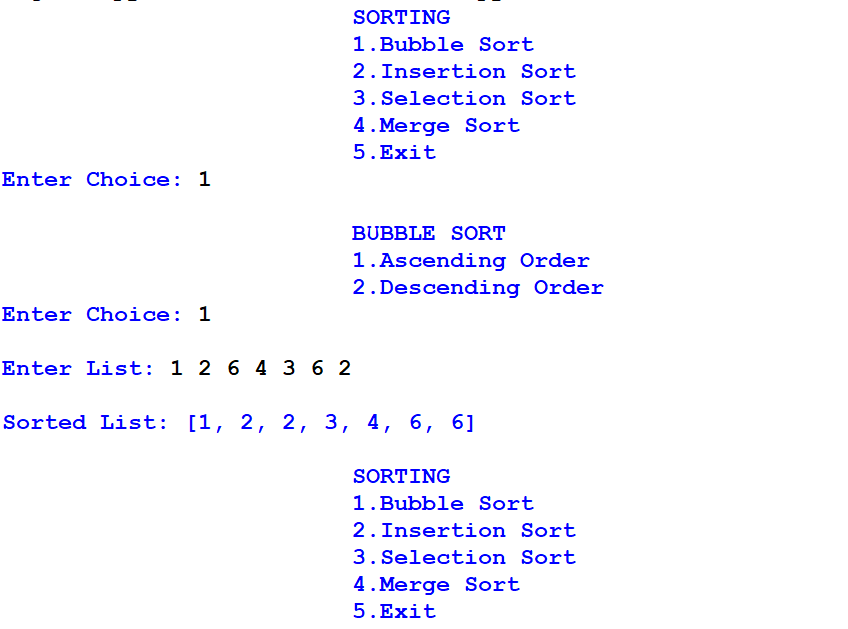


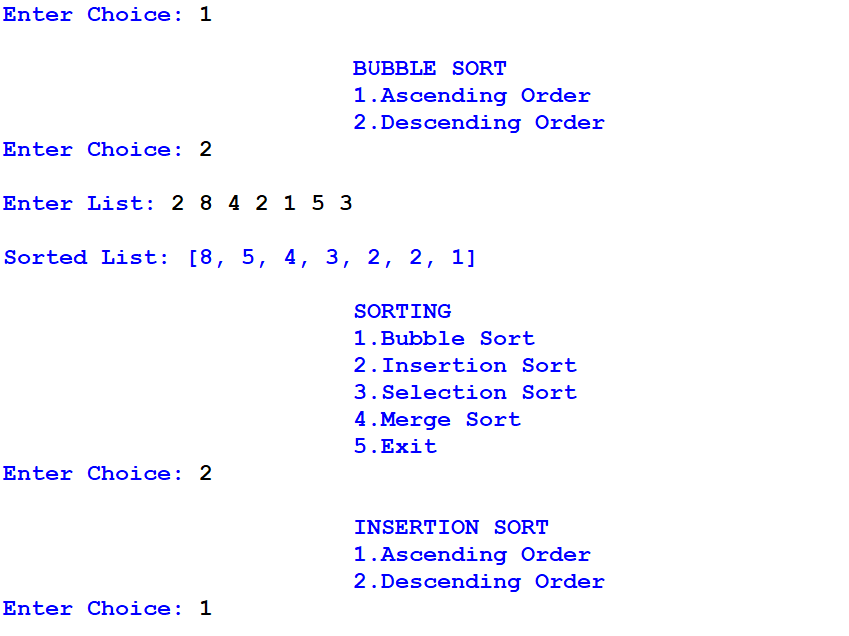


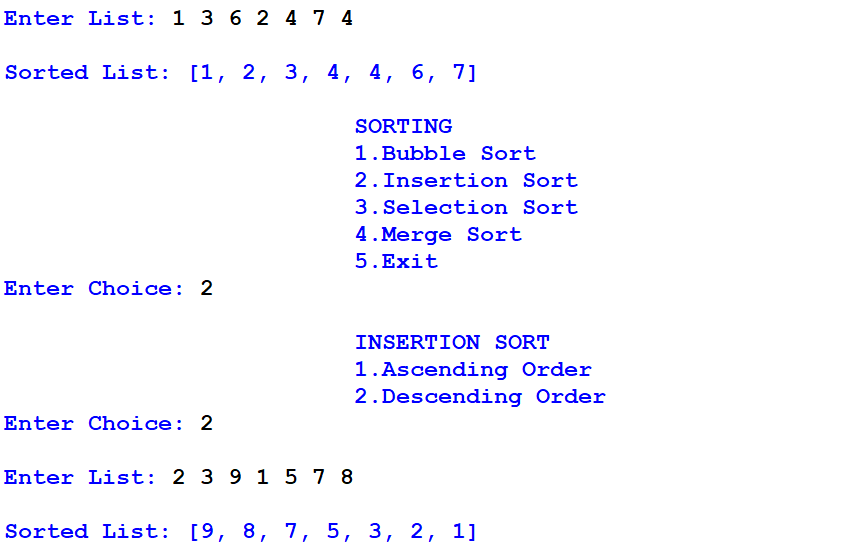


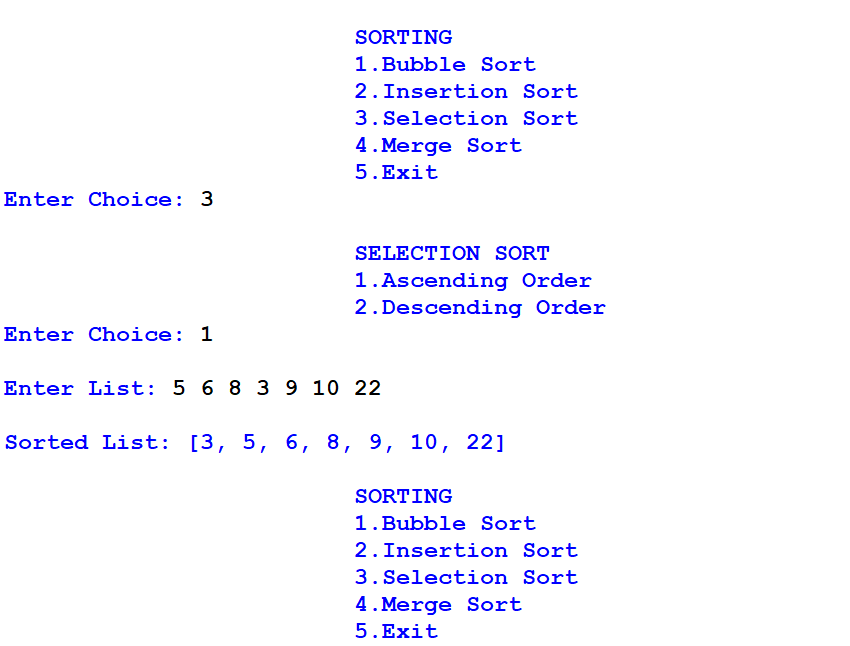


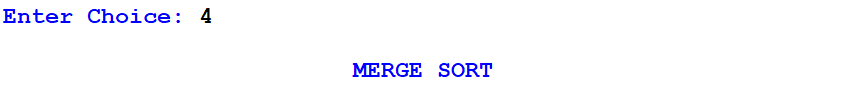
**OUTPUT**

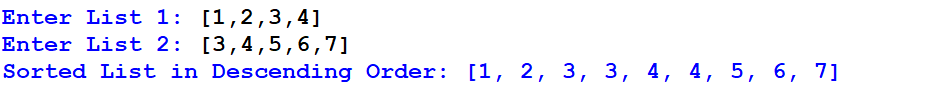


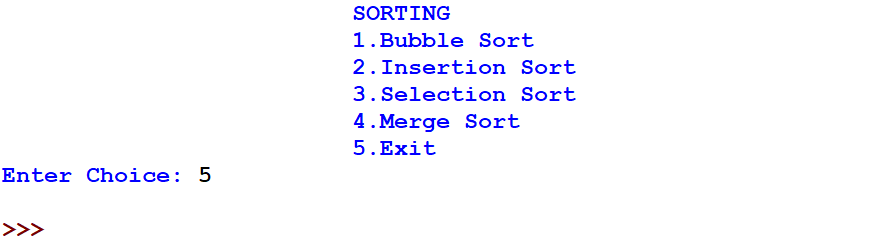








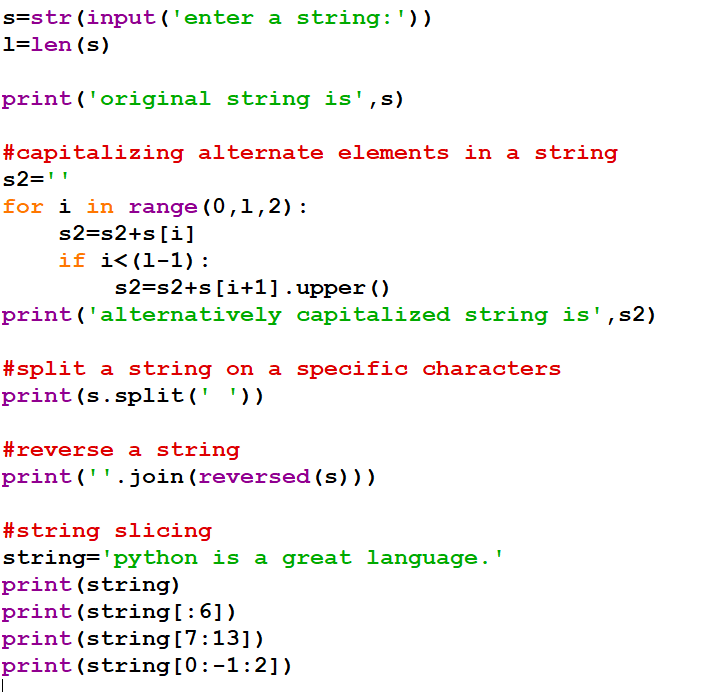




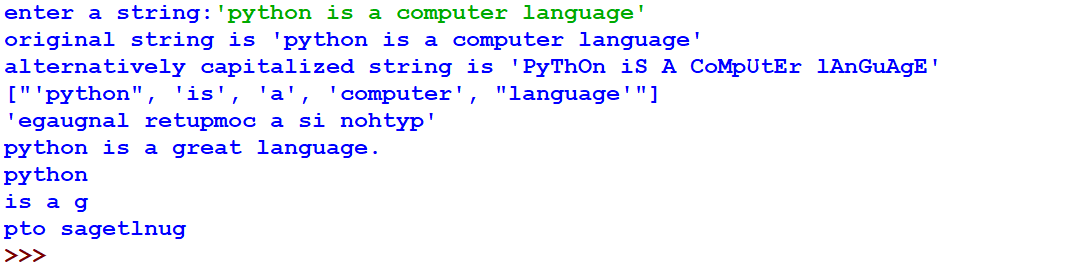
4. STRING HANDLING

**Q.) Write a program that inputs and reads a string and performs various inbuilt python string manipulation methods.**

**INPUT**



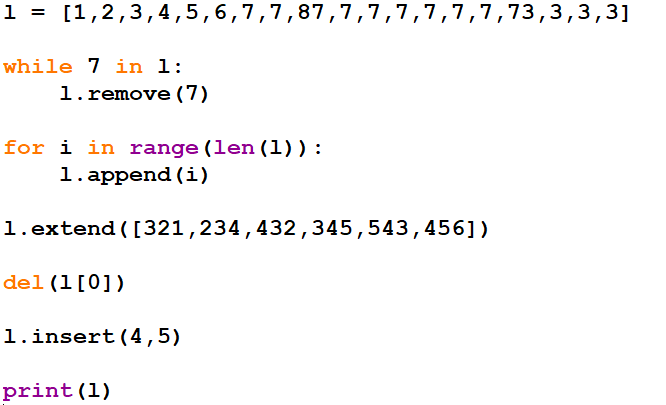
**OUTPUT**



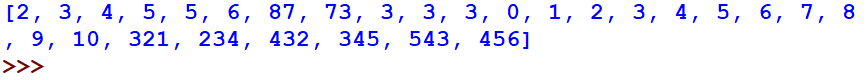
5. LIST HANDLING

**Q.) Write a program that inputs and reads a list and performs various inbuilt python list manipulation methods.**

**INPUT**



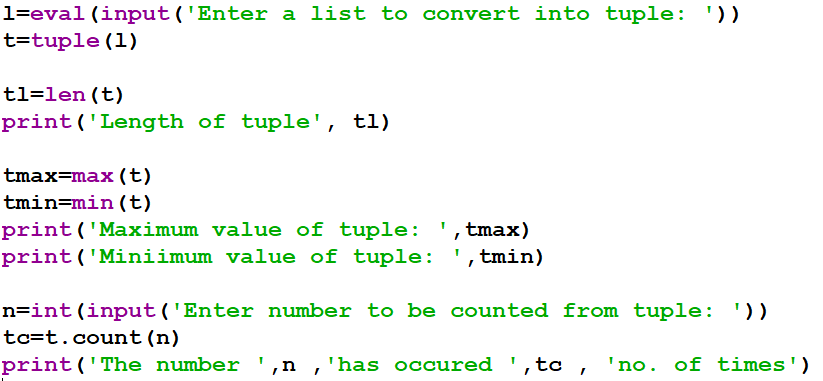
**OUTPUT**



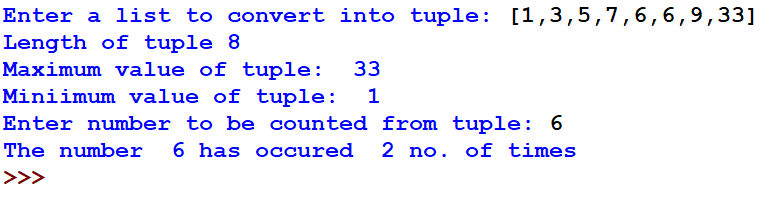
6. TUPLE HANDLING

**Q.) Write a program that inputs and reads a tuple and performs various inbuilt python tuple manipulation methods.**

**INPUT**



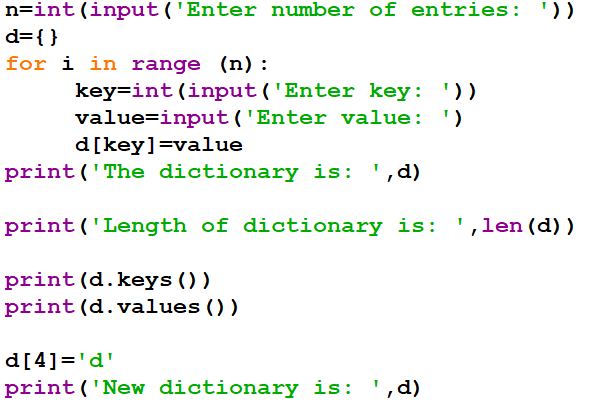
**OUTPUT**



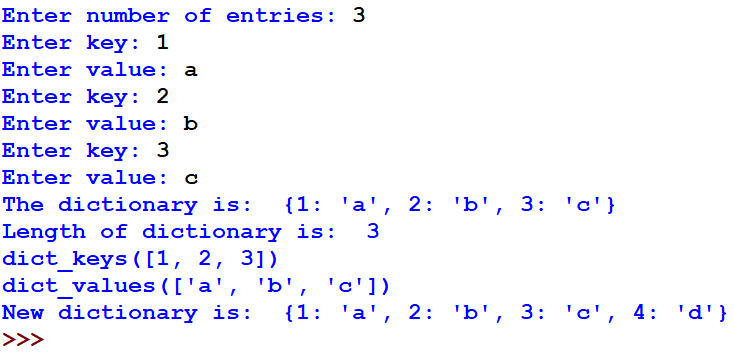
7. DICTIONARY HANDLING

**Q.) Write a program that inputs and reads a dictionary and performs various inbuilt python dictionary manipulation methods.**

**INPUT**



**OUTPUT**



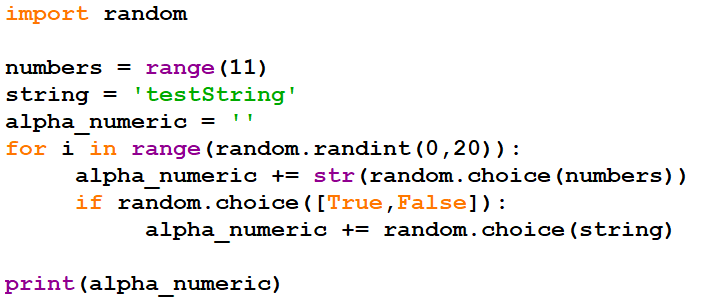
8. LOGIC BASED PROGRAM ON STRING/LIST/TUPLE/DICTIONARY

9. FLOOR DIVISION / MODULUS

10. OPERATORS IN PYTHON

11. RANDOM

**INPUT**



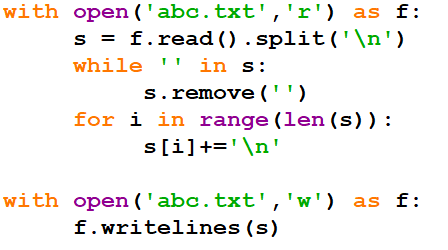
**OUTPUT**



12. FILE HANDLING (TEXT MODE)

**--> removing all empty lines**

**INPUT**



**OUTPUT**

Initially:

file

handling

text

Finally:

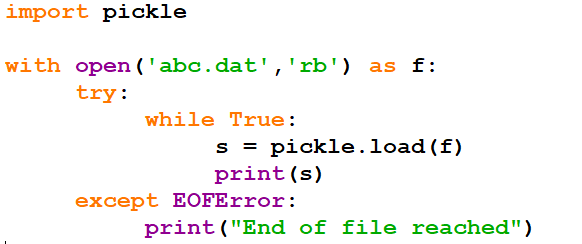
file

handling

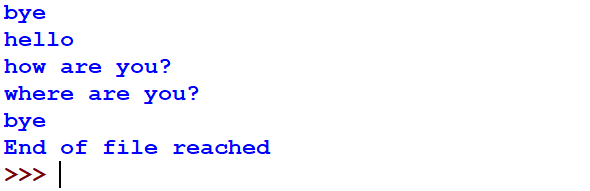
text

13. FILE HANDLING (BINARY MODE)

**INPUT**

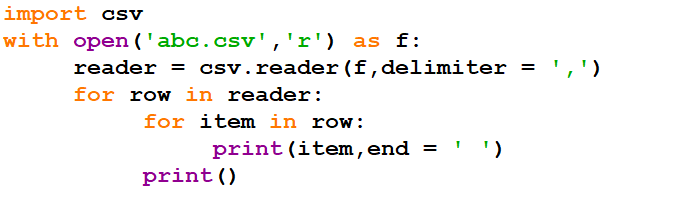


**OUTPUT**



14. FILE HANDLING (CSV)

**INPUT**



**OUTPUT**



15. USER DEFINED FUNCTION

16. MYSQL QUERIES

**Program 1*:*** *Write a SQL program to create a table with suitable fields*

*Code:*

**CREATE TABLE jobs (**

**JOB\_ID integer NOT NULL UNIQUE PRIMARY KEY,**

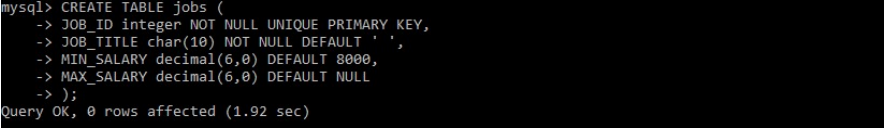
**JOB\_TITLE varchar(35) NOT NULL DEFAULT ' ',**

**MIN\_SALARY decimal(6,0) DEFAULT 8000,**

**MAX\_SALARY decimal(6,0) DEFAULT NULL**

**);**

*Output:*



**Program 2:** *Write a MySQL program to enter three records at once.*

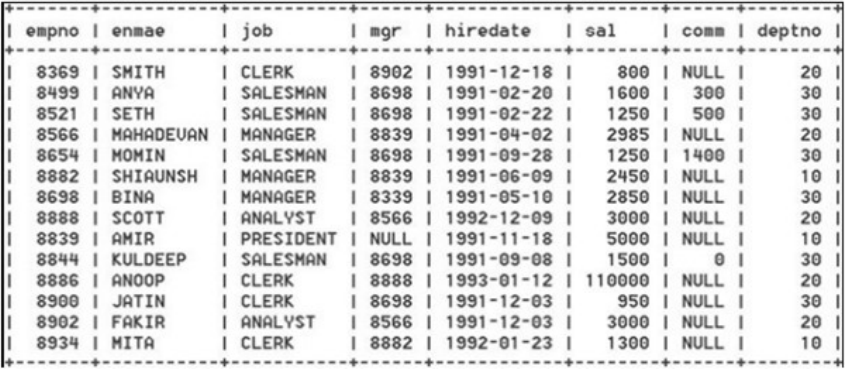
*Code:*

**insert into jobs values(281,'Engineer',24435,291198),(991,'Engineer',246645 ,291198),(721,'Engineer',287645,291348);**

*Output:*



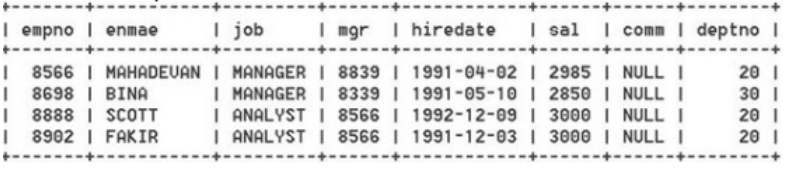
*Consider the table empl given below and run the following Queries.*



*1. List the details of those employees whose annual salary is between*

*25000 and 40000.*

**SELECT \* FROM empl where sal BETWEEN 2500 AND 4000;**



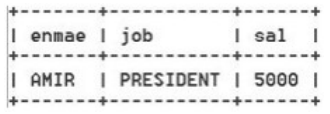
*2. Display the name of employees whose name contains ‘A’ as the 4th alphabet.*

**SELECT ename FROM empl WHERE ename like ‘\_\_\_a%’;**



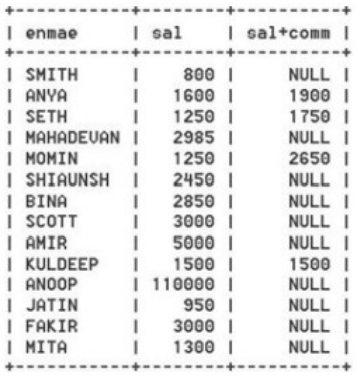
*3. Display Name, Job and Salary of employees who do not have a manager.*

**SELECT ename, job, sal FROM empl WHERE mgr IS NULL;**



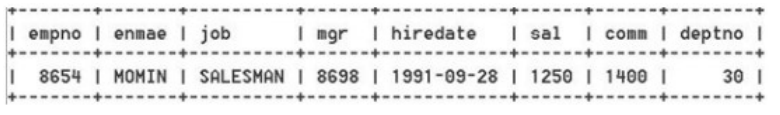
*4. Display Name, Salary and salary added with commision.*

**SELECT ename, sal, sal+comm FROM empl;**

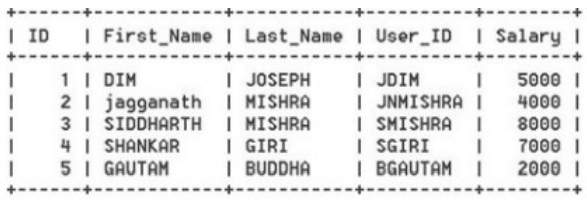


*5. Display details of employees who earn more commission than their salaries.*

**SELECT \* FROM empl WHERE comm>sal;**



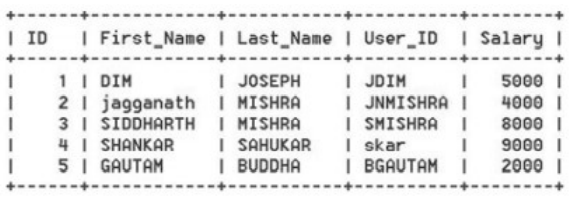
*Consider the table EMPLOYEE given below and run the following Queries.*



*1. For record with ID=4 update record with last Name, User ID and Salary.*

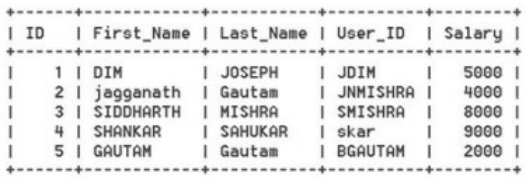
**UPDATE employe SET Last\_Name=’SAHUKAR’,User\_ID=’skar’,Salary=9000**

**WHERE ID=4;**



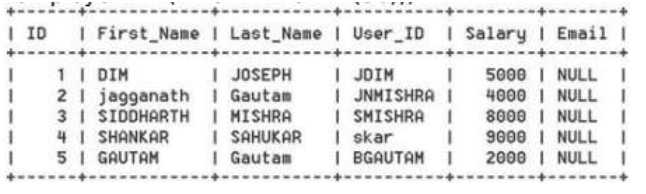
*2. Modify the last name of employees to Gautam where salary<5000.*

**UPDATE employe SET Last\_Name=’Gautam’ WHERE Salary;**



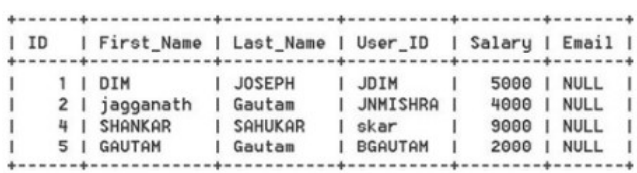
*3. Add column Email of data type VARCHAR to the table.*

**ALTER TABLE employe ADD(Email VARCHAR(30));**



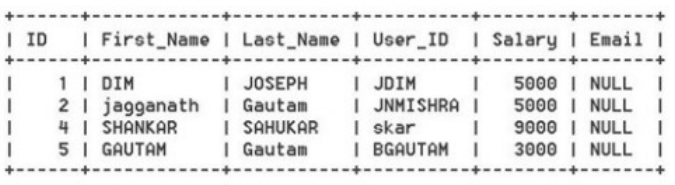
*4. Delete the employee record having first name as SIDDHARTH.*

**DELETE FROM employe WHERE First\_Name=’SIDDHARTH’;**



*5. Modify the salary and increases it by 1000, for all who get salary less than 5000.*

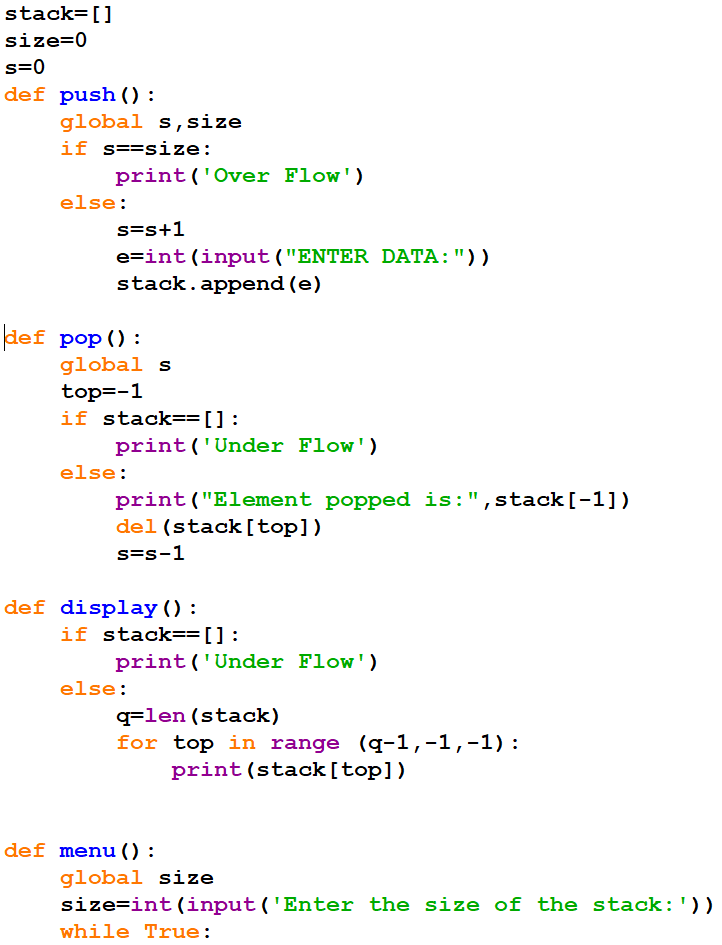
**UPDATE employe SET Salary =Salary+1000 WHERE Salary<5000;**

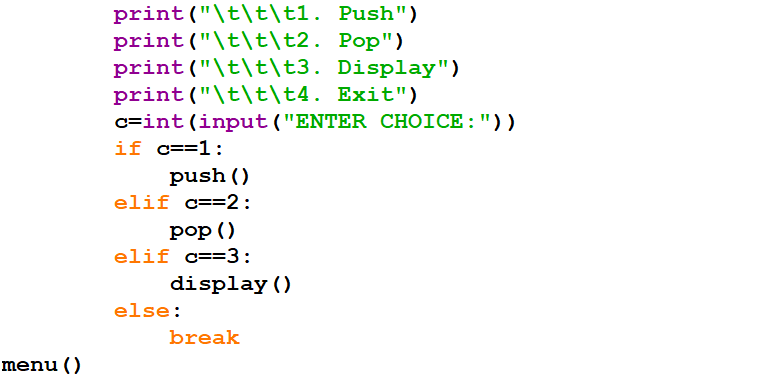


17. MYSQL CONNECTIVITY

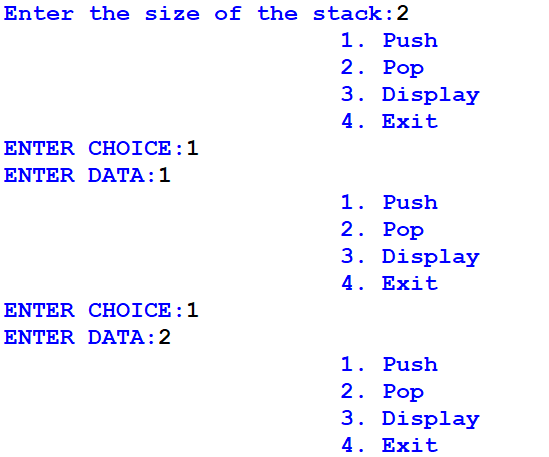
18. STACKS

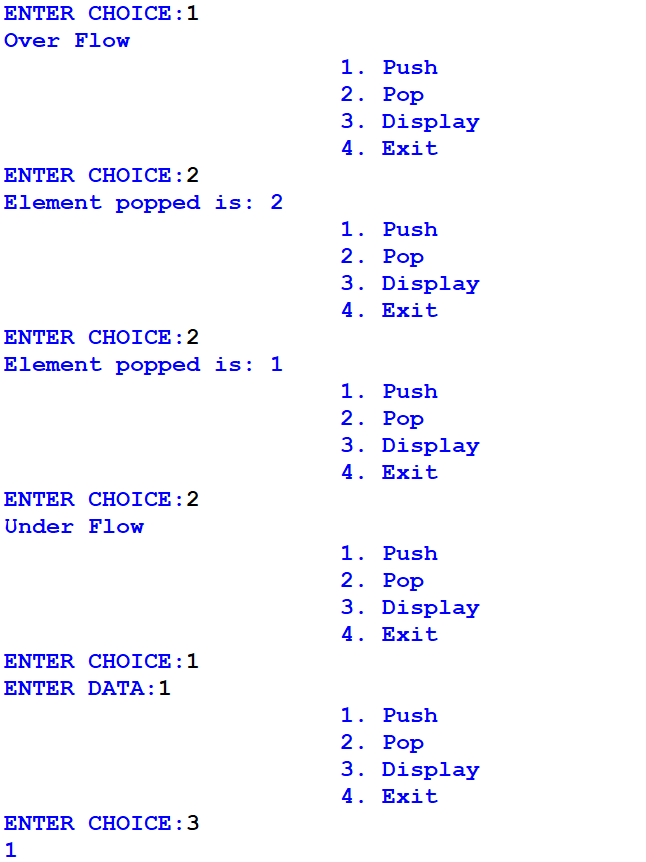
**INPUT**

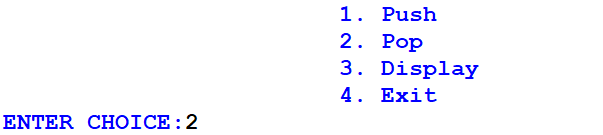


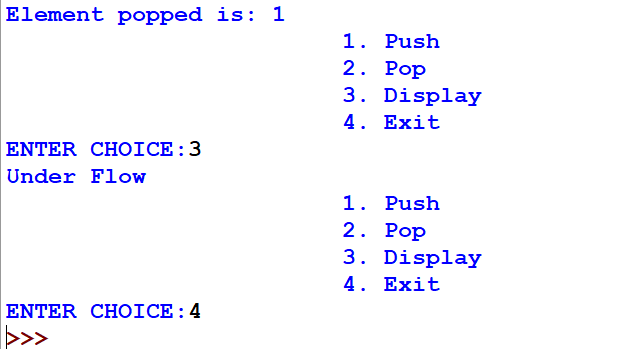


**OUTPUT**



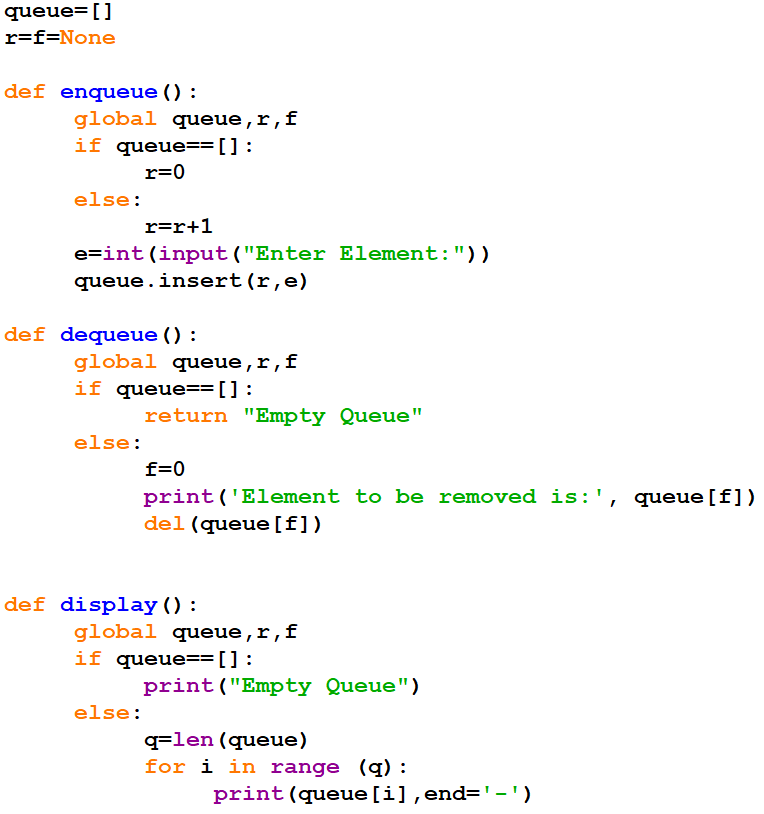


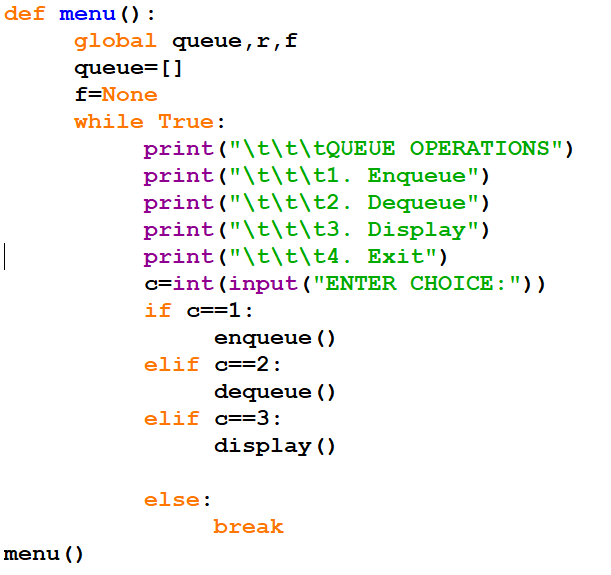




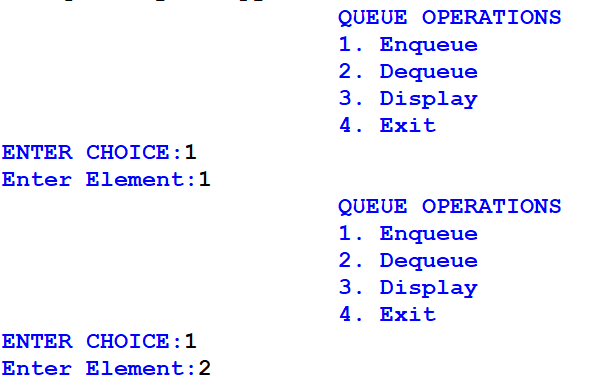
19. QUEUES

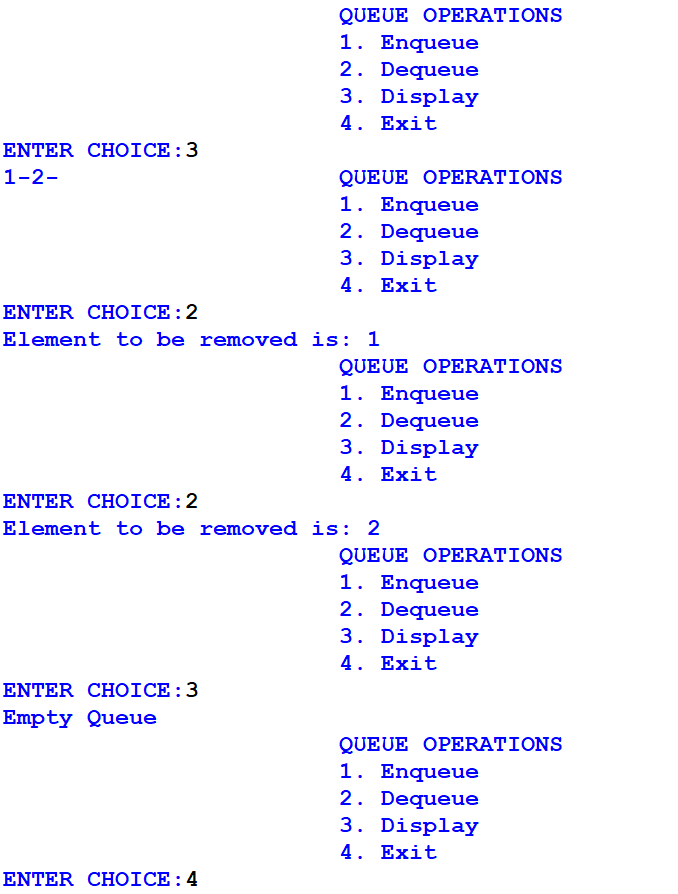
**INPUT**





**OUTPUT**





20. ART INTEGRATION PROJECT

**INPUT**